Sequence listing

<120> DNA sequence and preparation of grass pollen allergen Phl p 4 by recombinant methods

Sequenz-Protokoll

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Gln	Pro	Glu	Thr 100	Phe	Ala	Val	Val	Asp 105	Leu	Asn	Lys	Met	Arg 110	Ala	Val	·
Trp	Val	Asp 115	Gly	Lys	Ala	Arg	Thr 120	Ala	Trp	Val	Asp	Ser 125	Gly	Ala	Gln	
Leu	Gly 130	Glu	Leu	Tyr	Tyr	Ala 135	Ile	Tyr	Lys	Ala	Ser 140	Pro	Thr	Leu	Ala	

Phe Pro Ala Gly Val Cys Pro Thr Ile Gly Val Gly Asn Phe Ala Gly Gly Gly Phe Gly Met Leu Leu Arg Lys Tyr Gly Ile Ala Ala Glu Asn Val Ile Asp Val Lys Leu Val Asp Ala Asn Gly Lys Leu His Asp Lys Lys Ser Met Gly Asp Asp His Phe Trp Ala Val Arg Gly Gly Gly Glu Ser Phe Gly Ile Val Val Ala Trp Gln Val Lys Leu Leu Pro Val Pro Pro Thr Val Thr Ile Phe Lys Ile Ser Lys Thr Val Ser Glu Gly Ala Val Asp Ile Ile Asn Lys Trp Gln Val Val Ala Pro Gln Leu Pro Ala Asp Leu Met Ile Arg Ile Ile Ala Gln Gly Pro Lys Ala Thr 265 Phe Glu Ala Met Tyr Leu Gly Thr Cys Lys Thr Leu Thr Pro Leu Met Ser Ser Lys Phe Pro Glu Leu Gly Met Asn Pro Ser His Cys Asn Glu 295 300 Met Ser Trp Ile Gln Ser Ile Pro Phe Val His Leu Gly His Arg Asp 305 Ala Leu Glu Asp Asp Leu Leu Asn Arg Asn Asn Ser Phe Lys Pro Phe Ala Glu Tyr Lys Ser Asp Tyr Val Tyr Gln Pro Phe Pro Lys Thr Val Trp Glu Gln Ile Leu Asn Thr Trp Leu Val Lys Pro Gly Ala Gly Ile Met Ile Phe Asp Pro Tyr Gly Ala Thr Ile Ser Ala Thr Pro Glu Ser 375

Ala Thr Pro Phe Pro His Arg Lys Gly Val Leu Phe Asn Ile Gln Tyr 385 390 395 400

Val Asn Tyr Trp Phe Ala Pro Gly Ala Ala Ala Ala Pro Leu Ser Trp
405 410 415

Ser Lys Asp Ile Tyr Asn Tyr Met Glu Pro Tyr Val Ser Lys Asn Pro 420 425 430

Arg Gln Ala Tyr Ala Asn Tyr Arg Asp Ile Asp Leu Gly Arg Asn Glu 435 440 445

Val Val Asn Asp Val Ser Thr Tyr Ala Ser Gly Lys Val Trp Gly Gln 450 460

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